

A

## Dissertation

On The

Hydrocephalus Acutus

Hugh G. Seymour

admitted March 27. 1810

By ~~Hugh G. Seymour~~  
of Virginia

"In medical writings, strict accuracy is above all other things required; and to this I have constantly adhered, to the best of my knowledge and judgment."

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## Preface

The difficulties and embarrassments, which are necessarily, of  
sociated with juvenile performances of this nature, have been so  
often insisted upon, and are so well known, as to require, at  
present, no particular notice. As it is an institute, of the  
school, however, under whose auspices I have had the honour  
to commence my acquaintance with Alma Mater, that,  
each candidate for its honours, shall prepare and defend  
a dissertation on some medical subject; I have collected  
and arranged the following remarks, on the *Hydrocephalus*  
*Acutus*.

Much has been said with regard to the most proper  
name for this disease, and authors have been as lit-  
tledig of the denominations which they have conferred  
upon it; thus we have the *Apoplexialis Hydrocephalus*, *Hy-*  
*drocephalus Internus*, *Hydrocephalus*, *Hydrocephalus Acutus*, &c.

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After some reflection, I have thought proper to adopt, as conveying a more distinct idea of the nature of the complaint, the latter denomination. That this species of *Hydrocephalus* particularly affords to the acute diseases of children, I think there can be no doubt; and as none of these complaints more imperiously demand an early attention, than it, the term appears to me to be peculiarly appropriate.

With respects to the character of the execution, I can only say, that so far as my abilities enabled me, I have endeavored to present a clear and comprehensive view of the subject. If I have failed, I have at least the satisfaction to know, that my intentions have been pure; and that I have always had before me the noblest incentives to exertion which can animate a young and inexperienced mind.

Presuming, therefore upon the clemency of those, into whose hands this hasty production may fall, I console myself, with the reflection, that their decision on its aptitude for the purpose intended, will not depend so much upon its real merits, as the consideration, that the author is but, a mere tyro in science.

"This is a pitiable case, in which the most tender feelings, the soundest judgment, and the almost sagacity of the physicians will find a call, and a task sufficient to exercise and display themselves: but, alas! I fear the physician is seldom sent, for till the opportunity may be lost."

Darwin.

A  
Dissertation  
On the  
*Hydrocephalus Acutus*

Of all the diseases to which children are exposed, perhaps there is not one which more deservedly claims, or is better entitled to the attentive consideration of the Physicians, than the *Hydrocephalus Acutus*. The justness of this remark will be particularly apparent, when we recollect, that this "hydro" affects one of the most delicate and important organs of the body, and that its attack is sometimes very sudden, and soon proves fatal. In other cases, the approach of the disease is insipitious, its progress tedious, and when without the interference of art, it is permitted to advance, untill effusion takes place within the brain, its fatal termination is almost unavoidable.

*[Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side.]*

*[Faint, illegible handwriting on the right edge of the page, likely bleed-through from the reverse side.]*

## History of the Disease

The antecedent symptoms of Hydrocephalus, are in many cases inconsiderable, and apparently so unimportant, that they are often either wholly disregarded, or considered as the whimsicalities which children design to keep them from school. In the beginning of this disorder, and sometimes previous to the appearance of any conformed complaint, the child loses much of its ordinary brightness, and becomes, daily, more dull, languid and drowsy, being averse to motion, and complaining of slight pains in the head and belly. Even at this early period of the complaint, the stomach and bowels are often considerably disordered, the appetite is generally impaired, though sometimes morbidly increased, and troublesome paroxysms of nausea and vomiting aggravate the symptoms. As the evening approaches, a slight fever supervenes, and the child's sleep is interrupted by uneasy dreams and startings. The headache, which at this time is seated in the forehead, is very severe, and causes much complaint. Sight disturbs the patient, the eyes soon become fatigued, and the pupils are at different times, more or less contracted. Acute pains are complained of, in several parts of the

\* Vill. Chayne on Hydrocephalus Scutis.

\* Tokogill. Duino.

bed, now, attracted with much violence the nose of  
the nose, then the lower, and finally the submandibular. Most  
commonly the lower are swollen and the tongue is white.  
Sometimes, however, on opposite sides the swellings  
which in the commencement are fleshy, change in the  
progress of the disease to the consistency of jelly, take on  
a dark green colour, and emit an offensive odour. The  
swelling which is so frequent and troublesome an accom-  
pany of the complaint, occurs chiefly in the morning upon  
the patient rising from bed. The symptoms which have  
been detailed, are like the lines of the eruptions, very chan-  
geable, exactly now heightening, and exactly in the same  
order, and after having lasted a short time, become some-  
what more determined and characteristic.

The fever which at first was slight, now increases, and  
sometimes in the course of the day, generally towards eve-  
ning, undergoes an exacerbation, during which the respi-  
ration is hurried, the skin is hot, the cheeks are flushed,  
the pulse which in the beginning was nearly natural, be-  
comes frequent, and the headache is more violent and  
alternates with the vomiting. The child now, or soon

• H. Kerquell.

Quinn.

slaps profoundly; but has short and interrupted slum-  
bers, during which, it starts, picks its nose, and gnaws  
its teeth. It dislikes to be disturbed, and manifests a dis-  
position to remain constantly in the recumbent posture;  
supper succeeds, and so great is the insensibility, that  
the stools and vomit sometimes pass involuntarily, the  
former of which are of a dark colour from a coagulum  
of bile, and particularly offensive. The pupils of  
the eyes are much dilated, and insensibility is so great  
may now be observed, the child means a great deal, fre-  
quently raises the hands to its head, and sometimes  
screams loudly without complaining of any particular part.  
The head is generally very hot, from which a profuse  
perspiration occasionally flows. The superficial veins which  
ramify through the scalp, are in some instances considerably  
enlarged with blood, and not infrequently obstructed,  
or a hemorrhage from the nose takes place, with little  
allocation of the secretions.

When the disease has gone on in this way for some  
time, the complexion becomes sallow, the patient is con-  
stantly emaciated, its head is so heavy, that it seems

and Chevreton

scarce able to support its own such is the languor and  
debility of the countenance, that those most concerned  
in the case are ready to despair of a recovery.

The attack is sometimes more sudden and violent, the  
shock being immediately surging with a considerable fever,  
which continues with little abatement throughout the first  
stage. This is particularly the case where the previous he-  
alth of the patient is debilitated either in consequence of  
an antecedent very phlogistic affection, which has lately sub-  
sided; or of some epidemic disease with which the child  
has before been afflicted; and from which its health has  
not been perfectly restored. Through the whole course of  
the disease, there is the most manifest evidence a circu-  
lar action in the system. At one time, the shock is seen  
in some patients because the countenance and throat being purple,  
the skin shows the lividous countenance, and the hurried  
intercostal breathing: at another, the circulation being disor-  
dered, becomes almost natural, the skin is much cooler in  
the lower extremities, the circulation is more and the respira-  
tion more and undisturbed. The pulse is full, force and  
quick is irregular, the appetite being sometimes nearly

\* *Don. Caceres.*

natural, and the patient makes no complaint of thirst;  
at others, the demand is so weak that in several cases seen  
any movement is taking there is great thirst and  
vomiting. the vomit is watery, and the bowels are constantly  
empty; from the natural weakness, sometimes discharged  
with much pain, sometimes slowly and then is obstinate  
either as to require the use of the strongest purges. The  
fever frequently abates, but is never relieved, absent, and is  
sometimes attended by such acute pains in the head that the  
child becomes delirious at first, raving, then it is serene  
with convulsed features of the face, and now and then the  
limbs are affected with the convulsive motions tremor &c.  
Kindred Dances When illness, characterized by the above  
is the pulse not considerably of the system have been attrib-  
uted by authors to Hydrocephalus and much trouble pro-  
pably, in some are liable to some variations. The first stage  
is known by the pulse being quick, irregular, and unequal;  
sometimes having this, sometimes that for a few minutes  
it is very slow, not amounting to more than 50 or 60 in the  
minute, and during the most short interval of time it be-  
comes so frequent as to exceed 100. There is much pain in

\* Bid. Choyne.

the sense: the eyes are injured, and the pupils contract, becoming a double to the light; there is a blush on the face which is attended by a hot dry skin, white tongue, and in general by marks of the symptoms which indicate an increased sensibility in the system. In the second, the pulse is slow, still irregular and intermits; the pain in the head together with the febrile heat undergo a temporary abatement; the child is sluggish and difficultly excited to motion, becoming only conscious for quiet and repose; the pupils are much dilated; which is accompanied by strabismus; and when the eyes are not absolutely insensible to the light, their axis deviates so much from the natural direction, and vision is thus rendered so imperfect, that objects present a double aspect; the brain is so violently congested that the most active cathartics are unavailingly employed in short, such is the deficiency in the action of the system, that this has been very properly called the stage of decreased sensibility. What has been denominated the third stage may, perhaps with more propriety be considered as a relaxation or continuance of the second. For this, however, to advance as the stage of convalescence, a suspension in the

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complaint that affords the best chance for a successful  
abstinence of art, and a hazardous remedy at which the  
most experienced have to recoil, are frequently indicated by  
the extreme violence of disease. It is in this stage, that the  
pulse becomes small, weak, and the stools either black  
or some various expression that, it is with the utmost diffi-  
culty, they can be maintained, the face presents frequently, but  
transiently, floridity; and after their receipt, a gleaming ex-  
cess moderates the countenance, the breath is weak, it appears  
as if it were with difficulty, of breathing, which has a strong  
resemblance to the stertor. Expectoration, hemoptoe sometimes  
takes place which is followed by violent convulsions and  
death.

Having now described the symptoms which appertain to the  
attack, as well as the characteristic of the different stages,  
it may not be amiss to observe, that this acute putrid  
disease rarely, perhaps scarcely, the same occurs, but presents  
in some various symptoms, various according to the various  
times of the year. Those who are conversant with it, must  
have frequently remarked the increasing frequency of the  
symptoms, more or less, paid to be sensible that some alteration



to come in common language its precise history, and  
we be obtaining two uncorroborated. To attain such desirable  
accuracy, each case would require its own individual  
history. In most instances however many of the above-men-  
tioned symptoms appear, and though it may be somewhat  
troublesome to distinguish the symptoms in the commence-  
ment there is little difficulty in the latter period. In acute  
cases Dr. Keene "how can we mistake, when we see a child  
relaxed, his head on the pillow, or always raising the  
arm with one hand, while the opposite side is raised; with  
a flexion on the elbow, his eyelids half-closed, the  
pupils, even the eye appears to be movable by the finger,  
opening & the cornea, the complete evolution of one or  
both of the pupils, and the enlargement of the pupils; draw-  
ing a long snub; respiration, occasional but rather entire  
intermittent, as in a state of complete insensibility; with a  
burning fever on the skin, or sweat, however from every  
pore; and all these symptoms alternating with, and at  
last terminated by, obstructed breathing, and violent con-  
vulsions." All the above is true, nevertheless, however rare,  
we refer to the attacks of Hydrocephalus; the infants

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nerves is destined most probably to become the subject  
of the virus. And this we might be led to suspect, as the  
course of the disease & life is longer in proportion to the  
time spent in the liver. This is the adult subject, con-  
sequently, because the organs of the system are much  
increased, a preternatural determination of blood to the  
liver takes place, proceeding in this manner, the expha-  
sia inflammation which terminated by several effusions  
into the ventricles. The disease phthisis is frequently a fatal  
consequence, and many instances have occurred where sev-  
eral instances of the same disease have been seen in  
the 2<sup>d</sup>. Simonson mentions an affection of this  
kind, in which the children when two years old were that  
completely diseased and 2<sup>d</sup> Choisy has recorded one still  
more fatal, where the disease achieved an unfortunate  
issue of eleven happy children. From this statement it  
will plainly appear, of what great moment it is, to bestow  
a strict attention on the precautionary or preventive treat-  
ment, by which its alarming fatality may in a great  
measure be avoided; but of this we shall say more here-  
after. The disease is frequently met with in children

2. *Spizella*.

having a scrophulous disposition, which may explain why the offspring of some parents are more exposed to it than others, as it is highly probable that, inherited the sturvenous tendency, and with it the tendency to the disease, from their ancestors. It is also a curious fact, that most of the children who have been afflicted, and died of this disease, were remarkable for the acuteness of their intellectual powers, the pleasing and abounds in conversation much above their years and Dr Johnson remarks, "that several of these who first of all came under his care in this disease, were either the favorites of the family, or the sole beloved of their parents." Hydrocephalus is not confined to any particular season of the year, occasionally happening in all of them, though, perhaps most frequently in spring and summer. The length of time which it occupies is not very constant, sometimes only a few days are consumed by it, while at others it prolongs its continuance for several weeks. Most generally, however, if the patient has reached the second or third year of age, twenty or thirty days terminates it; but if the child be very young, it is of a much more limited duration, frequently abridging its course to the short period of four or five days.

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## Diagnoses

As it is desirable to distinguish Hydrocephalus from some other diseases to which it bears a resemblance, I shall next make a few remarks on each of the complaints, with which it is most likely to be confounded. The diseases to which particular allusion is had, are the worm fever, the infantile remittent fever, and the symptomatic Hydrocephalus, or the symptoms which arise, when the brain mutually sympathizes with disordered chyliferous viscera.

Worm fever. It would not be easy to represent some, to which no disease may be above distinguished from worm cases; for many of its early symptoms are precisely similar to those arising from worms, and the difficulty is increased by both of them being complaints of the same age. When, however, there is a continual headache, with a disposition to lie on the back, and an incapability of wearing the night, attended by nausea, and acute pains in the extremities, together with of spasm, bilious, and offensive stools, or an almost insupportable constipation of the bowels, it is highly probable that Hydrocephalus has either already commenced, or will soon take place. Many of the characteristic symptoms which have

• *Dothorigill.*

† *Brid. Elements of Materia Medica - illustrated by Dr. Chapman.*

been mentioned, do also, undoubtedly, occur in the various  
the complaints, but they are more transient, and in general  
not so severe, neither do they so obstinately resist our efforts  
to remove them. In particular, the cutaneous eruptions from worms is  
much more easily converted, and the stools are slimy, rather  
or than glassy. Spasms, also are often met with in disor-  
ders dependent upon worms, than in the disease under con-  
sideration. The symptoms, however, which most of all, ought  
to be attended to, and which more distinctly, appertain  
to the case of worms, are, "a very strange alteration of voice;  
and in some instances, a total loss of speech."

From Remittent Fever. A particular attention to the symptoms  
of Hydrocephalus, as well as those of the Infantile Remittent Fever,  
will generally enable us to distinguish these diseases. By con-  
sidering the cautious commencement, the frequent vomiting,  
and the circular convulsions of the former, with the sudden  
attack, the more complete convulsions, and the greater livi-  
dness of the child during their continuance, in the latter,  
consequently, we shall be much assisted in our diagnosis. In  
both complaints, there is pain in the head, but in the Rem-  
ittent Fever, it is in paroxysms, which are confined to

a. Stethergill; Sines.



the early stage of the disease, and are generally accom-  
panied by nausea, and disorder of the stomach. In the  
Remittent Fever, the stools are much offensive, and darker  
in colour than in Hydrocephalus, in which, they are frequ-  
ently of a glossy, bilious aspect, and liquid consistency.  
It is not however to be denied that there is in certain cases  
a troublesome confusion of the symptoms, which much embarrass  
the diagnosis, and always denies the possibility of an  
accurate distinction.

Form Symptomatic Hydrocephalus. It has been <sup>now</sup> ~~observed~~  
observed by Dr Haller, that we should distinguish the com-  
plaint under consideration from the Symptomatic Hydro-  
cephalus, an affection dependant on an unhealthy con-  
dition of some of the abdominal viscera, of which the brain  
by morbid association frequently partakes; exhibiting a  
series of symptoms very similar to those of the idiopathic  
disease. Such morbid sympathy is most frequently kept up,  
between the brain and the alimentary canal, and to these  
organs we shall particularly confine our attention. This  
becomes necessary, not only with a view of settling the  
diagnosis; but also to point out the proper methods of

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warning sign, which thus intensifies the case, and is  
for "most commonly at least" even Dr. Williams "the disease"  
referred to Hydrocephalus "is not, when it is an ac-  
cumulation of water in the ventricles of the brain, but con-  
sists in an altered state of that organ, arising from a per-  
manent derangement in the chylo-crassal viscera, and hyper-  
caloric of the stomach." Many of the diseases of children  
indubitably depend on deranged excretions of the kidneys, and  
the symptoms proceeding from such a condition of these or-  
gans, from their striking resemblance to those of Hydrocephalus,  
must have often awakened the apprehensions, and pro-  
voked into action the most vigorous medicine the phre-  
nology to relieve them. It is interesting, indeed, to an author  
of no small degree of respectability, that he has with great  
pleasure, known children recover from the most alarming  
and desperate situations, when from the manifest simi-  
litudes of the symptoms to those of Hydrocephalus, there  
was too much obvious argument for concluding that this  
case to exist, until the results of the case proved the  
reverse. It is well known to those experienced in infantile  
diseases, that there frequently exists between the Nervous

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and Hydrocephalus an intimate association, and it is my deliberate conviction, that the latter complaint is often completely and immediately established in the intractable obelation of the bowels which not infrequently attends or produces marasmus. If this observation proves true, and there is little doubt but a more enlarged experience will confirm its correctness, I cannot be too importunate in soliciting the attention, not only of physicians but, also of parents, to the condition of these important organs in these children who may be entrusted to their care; and where health it should be their object, as much as it is their duty, constantly to improve.

There is, undoubtedly, a strong resemblance between the symptomatic and idiopathic Hydrocephalus. But it will be found that the symptomatic disease generally abounds, or cures entirely, whenever the untoward state of the bowels has been corrected by a suitable application to cathartics. Whereas, the idiopathic complaint, unfortunately, resists for a considerable time, the best directed blisters of treatment, and I am sorry to say, that its full career is too often never arrested until the patient is consigned to

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters  $\alpha$  and  $\beta$ . It is shown that the system has a solution for arbitrary values of the parameters  $\alpha$  and  $\beta$  if and only if the condition  $\alpha + \beta = 1$  is satisfied.

the cold hands of death. A short course of gentle purging, timely resorted to, is, more generally, sufficient to prevent or cure an indigestion which if allowed to increase will become an exceedingly intractable distemper, that frequently proves fatal.

While upon this subject, I cannot feel satisfied without noticing the absolute importance of strictly attending to the early symptoms, the harbingers of this mischievous complaint. I am desirous to excite an attention charactised at this period in the disease for various reasons, some of which I will take the liberty briefly to mention. It is necessary in the first place from the negligence of children, in regard to their complaints, for they rarely, unless compelled by parents, inform us of them. In very young infants the difficulty is increased, and the plaintive cries of the child are the first signs to apprise us of its indisposition. But, of the nature of its complaints, we must endeavour to form an accurate judgment by carefully examining the alvine discharges, and by a watchful attention to the countenance, the features of which assume different expressions, according to the various kinds and degrees

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of pain. These discernment and modifications in the treat-  
ments of the fever, are important auxiliaries, at least  
in infants; in enabling us with more clearness of judg-  
ment to decide on the character of their complaints, and  
with more certainty of success to adapt our remedies to  
their respective peculiarities. It is further an object of great  
consequence early to detect the nature and tendency of  
the complaint. The advantage which is thereby obtained  
in the treatment, is adequate fully, to compensate for all  
the trouble we may encounter in substituting the proper re-  
gimes for such a purpose. Every one will be sufficiently  
convinced of the benefit which arises, from forming, soon  
after the first symptoms appear, a correct opinion of the  
disease, when they carefully contemplate that many of  
the symptoms of *A. maculatus*, are not only of an exan-  
themous nature, but equally belong to other complaints.  
If we were admit that those who are familiar with the  
disease, encounter comparatively little difficulty in distin-  
guishing it; yet the united observations of practitioners,  
are sufficient to teach us, that other causes produce  
similar symptoms, which may, without the most accurate

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investigation, and indulgence of speculation expose us to the commission of errors, for which the most poignant remorse can never atone. The most important reason, for directing a reasonable and vigilant attention to the progress of the disease, remains yet to be considered. It is the great influence, which a judicious mode of treatment commenced at this early period, has upon the result of the case. For though in most other diseases, we may, by a prudent and skilful application of remedies, frequently be successful in the cure, at any stage; yet, humiliating experience instructs us, that it is only, in the early periods of Hydrocephalus, and before effusion has taken place within the ventricles, that our remedies have much chance of success.

### Causes

Hydrocephalus sometimes takes place, without our being able to trace it to any satisfactory cause. More frequently, however, a particular examination, with regard to the constitution, and the previous health of the patient, as well as the accidents to which it may have

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been antiscorbutic success, will discover some one of  
the following causes.

1. External violence. Contused injuries done to the head  
as blows, and bruises, often produce this disease. The man-  
ner in which such accidents operate, when they become  
causes of Hydrocephalus, is not very obvious, and upon  
this point, two very ingenious gentlemen, both of whom  
have treated of the disease, materially differ. The late  
distinguished Dr Rush, supposed them to act, "directly, by  
kindling on congestion, or inflammation, and afterwards an  
effusion of water in the brain." Whereas, Dr Shew, who has  
elaborately written on the symptoms, avers that in more  
than one hundred cases, which have come under his obser-  
vation, he saw not one instance of the disease, directly  
produced by external violence, and only one where it  
was indirectly produced by the same cause. He contends  
that these injuries act indirectly, by inducing an asthenic  
state, or by converting into action a scrupulous con-  
dition of the system, which hitherto had been latent, and  
which when aroused, is very favourable to the establish-  
ment of Hydrocephalus. The apparent indication not

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perhaps extent of its nature, by supposing that were it, as is highly probable, that the systems of the patient to whom the above remarks have been made, are not at the time of the remarks, in another situation. For it is sufficiently obvious, that a sudden cause operating upon a peculiar state or condition of the system, may in the one case produce a febrile effect; whereas, the work shall be continued in another patient, whose system is differently circumstanced, and exposed to the same cause. What these states, exactly are, I am not prepared to determine; but it is an incontestable fact, that some patients when subjected to such violence are more liable to take on inflammation than the asthenic state, and vice versa.

2. Hence, tracing the causes of this disease, may be mentioned the various kinds of fevers, as the intermittent, remittent, and continued fevers. That Symplicious some times exceeds these diseases, there is not the least doubt, and to this point we have the testimony of several authors. After having pursued their ordinary course, fevers frequently leave the system in a condition, highly favorable to the production of a new disease. For while they exist to

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a considerable extent, the circulation is very much excited, and if the brain be naturally weak, or have been enfeebled by previous disease, it is highly reasonable to suppose, that the blood would be determined thither in quantities so preternatural, as to impede its natural functions, and thus lay the foundation for the disease.

3. Eruption of vesicles. Many instances could be cited where Hydrocephalus has occurred as the sequel of the measles, small-pox, and scarlatina. A case is mentioned by Dr. A. Sydenham, in which the disease succeeded the small-pox, and which was unsuccessfully treated by the mercurial plan, as recommended by Dr. Dobson. Dr. Rush, also, has recorded a case, in which the debility of the system occasioned by an attack of the measles, manifestly gave rise to the disease; and Dr. Addison has witnessed four cases, where it occurred after the small-pox, measles, and scarlatina.

4. Rheumatism. Cases of Hydrocephalus, have sometimes happened in this manner. I am disposed to believe, however, that in such instances, the rheumatism is entirely independent, and not a servile consequence of the disease, and that this indeed is more frequently the true cause of the complaint.

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22. *per*

3<sup>d</sup> *Prove.* The similarity which prevails, in most instances between the signs of worms, and the Hydrocephalus, has doubtless not infrequently deceived inaccurate observers into hasty and false conclusions. That the similitude, however, does not arise from the constant an inducement to believe, not only upon the authority of writers, but likewise from an interesting case, which has lately happened under my own notice; where worms were unquestionably the cause, and which notwithstanding the diligent use of the most potent remedies terminated fatally.

6<sup>th</sup> Chronic Emptions, suddenly healed, have sometimes produced Hydrocephalus. It is a Temptation to make to cure such affections, without previously establishing an issue or a seton.

7<sup>th</sup> Various other similitudes, have been mentioned as causes of Hydrocephalus, among which are the colic, palsy, melancholy, dyspepsia, dentition and irritation.

#### *Proximate Cause.*

Dissection, as have been the Speculations of the earlier writers, on this very intricate and interesting part, of



our subject, none of them appear to be entirely satisfactory, so sufficient to illustrate the pathologies of the case. On consulting the works of Dr. Whist, & Schmidt we find even we must be persuaded that the pathological views of the complaint, with which they were pleased to favour us, have rather originated from their inclination, to elucidate so obscure a matter, than any accurate knowledge which they possessed of the real nature of the disorder. Thus Dr. Whist the disease was imputed to an "original weakness, or laxity of the brain," and also to "a too thin and watery state of the blood." Schmidt considered it as "a cerebral carcinoma by the rupture of a lymphatic," and "a debility of the absorbents" was assigned by Darwin as an adequate cause to account for the water which is found in the brains of patients who have died of Hydrocephalus.

From the recital of these circumstances, it is very evident that the promulgators of them, regarded the disease to be a dropsy; occurring as the immediate effect of the several causes specified, and that the effusion thus produced within the brain gives rise to the various symptoms which are presented in the course of the disease. Since



End. *Shewell* 20

The time, however of these illudicrous and miserable cuttings  
of scurves, we have been taught, by ample experi-  
ence, as well as repeated dissections, that the disease is  
not, in reality, a distemper, but as subsequently has been ob-  
served by Drs Quain and Cheever, consists in a partial dis-  
tension of the cerebral circulation, admitting a morbid accu-  
mulation of blood to take place within the brain, from whi-  
ch most of the symptoms proceed. According to our pre-  
sent knowledge of the subject, the pathology of Hydrocephalus  
may be thus stated. That this disease depends upon a  
morbid redundancy of blood in the venal circulation of  
the brain, which is occasioned by some degree of pre-  
cious inflammation, and in a majority of cases, causes  
sometimes before death, a greater or less quantity of lymph  
to be effused into the ventricles.

In support of this opinion of the proximate cause of  
Hydrocephalus, I shall present a few considerations. In the  
first place, we may remark, that in a majority of cases  
of the disease, in which blood has been detected at an  
early period, it has almost uniformly exhibited the same  
morbid appearance, which are peculiar to this fluid.

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in diseases of an inflammatory type. The excitement of the pulse, and the exceedingly acute and distinguished pain in the head, which generally attains in the early periods of the disorder, must, also, be looked upon as evidence strongly concurring in favour of this view. The blood now from the nose, and the torpidity of the superficial vessels about the head and neck, together with the mitigation of the pain and other symptoms, which constantly accompanies the use of the tartaric and other antiphlogistic measures in the early stage of the complaint, are corroborating testimony which cannot well be overestimated. Another proof which is exceedingly favourable to this supposition, and which indeed ought to be considered as conclusive evidence, is the manifest deterioration of the symptoms which always follows the administration of cooling or stimulant medicines in the first or inflammatory stage. When to all this, are added the diseased appearances which dissections have revealed, certainly, no one can hesitate to admit the correctness of our pathology; for it seems indeed to be the obvious dictate of nature, reason, and experience. Are we not, from all these

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reflexive, justly entitled to come to this determination?  
that the symptoms of this disease, do not as formerly, sub-  
sist, arise from the presence of a preternatural quantity  
of fluid in the substance of the brain; but from a follow-  
ing kind of cerebral inflammation, which produces a mor-  
bid action in the vasa circulatoria of this organ; and that  
the disease, the intricate anatomical cause, is absolutely the  
natural effect of the peculiar morbid action described.  
*Apoplethica.*

### Prognosis

However desirable, or satisfactory it may be, in many cases  
to predict the events of diseases, it is a privilege which  
unfortunately, we do not always enjoy. In the complaint  
now treated of, it is particularly necessary, that the phy-  
sician should be extremely cautious and deliberate. So  
singular, indeed, is the nature of this disorder, that res-  
toration has been known to take place under circumstances  
most, apparently, the most unfavorable. Thus, Dr. Willan  
cites of a habit, who recovered after being abandoned  
to his fate. And Dr. Boerhaave mentions the restoration

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of a boy, in whose case, with the assistance of a blister, all  
the remedies used were of little efficacy, remarks, that  
"it may sometimes happen, as in the present instance,  
that nature although but moderately assisted, will enable  
the sick to struggle through diseases beyond our most  
sanguine expectations." In forming the prognosis, attention  
should be paid to the various circumstances. It may be  
mentioned, in the first place, that when Agryosiphonia at-  
tacks children, whose constitutions are previously sound and  
healthy, is early detected, and the appropriate remedies had  
recourse to immediately upon the occurrence of the first sym-  
ptoms, the chance of cure is less doubtful than under the  
opposite circumstances. According to Dr. Cheyne Agryosiphonia  
is more easily cured, when a family complaint, than  
otherwise. The return of the mucous secretion from the  
nose, which in this disease is frequently suppressed, has  
been supposed to be a favourable sign. But what is more  
probitious than all, and which perhaps ought to be regar-  
ded as the only auspicious token, is the complete absorption  
of the stupor, or comatose state. On the contrary, when  
a naturally defective constitution, or a system subdued

\* M<sup>r</sup> Chapman's M<sup>o</sup>d<sup>o</sup> Lectures

by, however, complaints is opposed by it, asphyxiation, the  
progress is extremely unpropitious. If permitted to ad-  
vance until symptoms indicating an effusion of serum  
within the brain, disclose themselves, the disease generally  
terminates in death. At the same time it ought to be  
remembered that cases have happened, from which, notwithstanding  
the occurrence of such symptoms the patients did recover. Profuse discharges of urine, with copious  
and profuse perspirations, taking place in the last  
two stages of the disease most commonly, forebode death.  
It should not be omitted, however, that the reverse of  
this is sometimes true. Thus, a case is mentioned by  
Dr. Cheyne, where from the insensible and seemingly  
moribund state of the patient, a successful termination  
was entirely despaired of; but at the very threshold of  
death, a profuse sweating took place from the head and  
neck, which was so great as to make it necessary to  
change the pillow, and from that instant, the child  
began slowly to revive, and completely recovered.  
When, unhappily, the assistance of art is not solicited  
until the latter period of the complaint, little hope

in Russian.

if a cure can be entertained. Now, instead can we  
expect success, at this advanced stage of its tragical  
career? It is now, that the most dangerous and alarm-  
ing symptoms are presented, such as great vomit-  
ing, blindness, insensibility— involuntary discharges of the  
urine and faeces, weak and rapid pulse hurried  
breathing, and as the tragedy concludes, hæmorrhoides  
appears, and convulsions close the scene.

### Prophylaxis.

In a disease of such unexampled contumacy, and  
deplorable mortality, as the one which I am describing,  
precautionary, or evacuating measures, cannot be too  
highly recommended, or strenuously urged. From what  
has been already said, it must be obvious, that in-  
comparably greater dependance, may be placed upon  
this part of the treatment, than the most skilful  
use of remedies, after the disease is completely estab-  
lished. In many cases, this complaint has been  
necessitated by a disordered state of the bowels, it is  
highly necessary, whenever these viscera are affected,

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to have immediate recourse to a diet of mild cathar-  
tics, which we may repeat, occasionally, until a restora-  
tion is effected. That a healthy condition of the  
digestive apparatus, is a matter of essential importance  
to the due exercise of all the functions of the body,  
is a fact, which I believe no one will deny, and which  
indeed, experience daily suggests to the wisdom of every  
practitioner. From the intimate sympathy, which pre-  
vails between the brain, and the chylificative viscera, it  
is very apparent, that if a diseased state of these or-  
gans, is permitted long to continue, the brain will at  
length partake of their morbid situation, and having  
its functions thereby impaired, will by reflex sympathy,  
react upon the parts, from which the impulsion was  
first extended, and occasion in them an additional,  
and much more dangerous disorder. After what has  
now been said, it is only necessary to observe, that when  
longer the proper treatment is omitted, so much the more  
dangerous becomes the affection of the bowels, and  
in case of derangement in one portion only, the irritation  
is extended through the medium of absorption, until

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the whole is involved, and a calculation of medical resources is thus constituted, which often bids defiance to the weak powers and efficient resources of our art. Whenever there exists a predisposition to the complaint, as is frequently the case, the prescribed measures must be adapted to the constitution, and particular circumstances of the patient. Thus, if the child be of a phthoric habit, all heating and stimulating articles, both of food and drink should be carefully avoided. A spare diet must be interdicted. The daily use of exercise judiciously concerted together with gentle purging, will be found highly beneficial. If the child is subject to frequent pains in the head, which cannot be attributed to some other cause, our suspicions should be excited, lest it may arise from an oppressed state of the cerebral circulation, and in addition to the preceding remedies, it will be requisite to place an issue in the arm, or a seton in the back of the neck. These measures proving inadequate the head ought to be shaved, and a blister applied to the scalp, which is to be kept discharging until relief is obtained. It is mentioned by Dr. Linnæus, that

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he has known several instances of children having a family right to the disease, who were subject to frequent hemorrhages from the nose; and that he has considered it proper in those cases, to forbid the use of any measures which might interfere with such bleedings. Like Dr. Dureau, I should much fear to check these hemorrhages, if I did not design, at once to resort to such means as would render them continuous unnecessary. But it appears to me, that the occurrence of such an event, seems indubitably to show, the existence of either general or local plethora, and the consequent necessity of general or local bleedings, which intention, I should rather prefer to accomplish by means of art, than leave the process to the law, and often ineffectual operation of nature.

When from a defective constitution, or acquired debility, there is reason to apprehend the occurrence of the complaint, it will be prudent to employ means calculated to invigorate the system, and restore the health, and as Dr. Dureau has well remarked, "we have often to be blamed for using remedies too early, than have to regret that we employed them too late."

*[Faint handwritten notes, likely bleed-through from the reverse side.]*

### Method of Cure.

If, notwithstanding, the most judiciously regulated profuse hydra, this "insidious destroyer" prevails; or when we sometimes happen the disease unexpectedly, afflicts the innocent child, we are bound by an inviolable duty, both to the physician, and our patient, immediately, and vigorously, to oppose, the insidious progress of so hostile an invader. Since in the commencement of the disease, epistaxis, frequently occurs, indicative of a disordered condition of the stomach, there can be no doubt of the propriety of having recourse to a gentle emetic, which will undoubtedly clear the stomach of its offending contents, and prepare it for the reception of subsequent remedies. But in this, as in every other disease, we must be governed very much by the particular circumstances of the case. Thus should the obstinate constipation of the bowels, which usually attends the complaint, be, the most prominent symptom, no one would hesitate to apply to cathartics, and persevere in their use, until the healthy functions of the alimentary canal are restored. If by these remedies, the early,

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symptoms have not been removed, but continue to advance, they even increase to us by their increased violence, and more definite character, the malignant nature of the disorder, with which we have to contend.

Our pathology supposes a premature accumulation of blood in the bowels. Accordingly, the best and most obvious indication of cure is, to remove from that highly irritable part, by every judicious means in our power, this morbid redundancy.

Blood-Letting. Of all the remedies for such a purpose, blood-letting is the most speedy, practicable, and effectual, and in the commencement of the symptoms, either general or local bleeding, seems always to be required. In many instances, it will be found advantageous to deplete blood from the arm, the quantity of which is to be regulated by the age of the patient, the violence of the attack, and the nervous state of the system. I very well know, that some of the writers on Hydrocephalus, entertain not a very favourable opinion of general bleeding in it, and allege, that the great debility which a continuance of the emetic always occasions, is a sufficient argument.

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ring us from the use of venesection, is, in my opinion  
one of the strongest proofs in its favour, and serves, in-  
disputably, to point out the great utility of such a  
measure. The primary object in the application of remedies  
is, certainly, to subdue disease as promptly, and effectually,  
as its obstinacy, and the measures employed will admit.  
The longer a disease is permitted to endure, so much  
the more dangerous will be the weakness, and the chance  
of cure proportionably precarious. Of the two consequences  
I really do consider, that it is most judicious, when we have  
the privilege of a choice, to prefer that which follows a shif-  
ting adaptation of remedies. In both cases, there would un-  
questionably be weakness, but that arising from the treat-  
ment is simple, and easily directed. Whereas, the debility, brot  
about on by a protracted complaint, is frequently complicated  
with dangerous affections of the viscera, and is almost alwa-  
ys accompanied by a train of vices, which challenge the  
best concerted plans of ingenuity and experience.

Bleeding has been very harshly condemned in the dis-  
eases of children, and this is the more remarkable, as in



many cases, there is not in the whole circle of medical  
expedients, a suitable equivalent. So far, in my opinion, is  
this from correct doctrine, that in the acute diseases of ch-  
ildren, I believe there is no remedy which may not, less  
dangerously be dispensed with than bleeding; and none in-  
deed which, grows more substantiated. Children are more  
vulnerable of life, and experience confirms the fact,  
that in inflammatory diseases, they are better able to sus-  
tain copious bleedings, than any other order of patients.  
Indeed, they so soon subside the loss of fluids, that in ma-  
ny cases, one bleeding will be insufficient for the purpose  
of cure, and it is frequently necessary to repeat the ope-  
ration. The foregoing remarks are by no means intended  
to recommend a rash and indiscriminate use of the  
lancet; On the contrary, the only object I have in view  
is to place in a true light the great advantage of the  
remedy, when judiciously employed.

When children who have infirm constitutions, are attack-  
ed or whose the disease subsides to great debility, in-  
duced by previous complaints, then general bleeding won-  
in i. e. manifestly improper, and prejudicial. And



these bleedings from the head, by means of leeches and  
cup, is of immense service. &c. Thus debility increas-  
es in the affected part, we spare ourselves of all the advan-  
tages of the remedy, without much increasing the de-  
bility of the general system. It is not, however, to be un-  
derstood, that cupping and leeching are intended to be  
restricted to the cases just noticed. On the contrary, local  
depletion is of essential moment in all cases, and to  
omit it under any false belief, would be the high-  
est of impudence. In some cases indeed the marked  
congestion of blood, in the cerebral circulation, appears  
to be so immovably fixed, by the diseased action in the  
extreme vessels, that the most plentiful general bleed-  
ing, is entirely ineffectual to remove it, and it becomes  
necessary to evacuate copiously from the head. This may  
be done, in conjunction with the means already spoken of,  
by opening the temporal artery, or jugular vein.  
In all cases where there exists general arterial excite-  
ment, it is very evident, that bleeding from the arm  
should precede local depletion. If this rational indica-  
tion is carelessly disregarded, and topical bleeding

\* This operation is mentioned by Morgagni, who says  
it may be used, with much advantage, in all cases, when  
the brain is obstructed with too much blood.

*Bid. Trunk, Book 1. Epistle 11. Article 10.*

alone, resorted to; it is sufficiently obvious that such a constriction of the arteries would cause the blood to be propelled with increased violence to the brain, and the remedy would thus tend to aggravate the evil, which it was designed to redress. If the means of least doubt stand already, no case should form any circumstance, more in accordance to our purpose, it will be reluctant to show the regular veins.

*Purgatives.* In the treatment of dyspepsia, cathartics were seen highly, and most deservedly, recommended. The intestinal canal, in this complaint, is liable to great irregularities; its functions are so exceedingly perverted, that it allows a morbid collection of undigested food, which are difficultly removed by the strongest purges. In these cases, the cramps are previous, and the discharges are thin, tenacious, and remarkably offensive. Most common, in both, the intestinal, as well as the hepatic secretions are considerably disordered, being either deficient in quantity, or of a quality, exceedingly depraved and unnatural. Under these circumstances, extensive experience, confirms the utility of a purgative course, which ought to be

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unrestrained, continued, until a healthy appearance is  
restored to the evacuations. Independently of their effects  
in correcting the morbid secretions, and answering the  
demand, pains of the alimentary canal; cathartics prove  
eminently serviceable in the obvious evacuation of fluids  
which they occasion from the yach. For need there be  
any fear or weakening, by this important measure, the  
activity of the system? For it is a fact altogether worthy  
of notice, that a continuance of this diseased condition  
of the intestinal functions, is infinitely more productive  
of injurious effects, than the purgative blow. The reason  
inasmuch, as far from assisting to the weakness which the  
disease produces, is almost universally, followed by the  
most manifest salutary consequences. In the very common  
event of this complaint, a series of cathartics, much in  
many cases, be employed with the highest advantages.  
For it is obvious, that an interference thus excited, and  
kept up in the alimentary canal, would, be diverting the  
circulation from the brain, powerfully counteract the mis-  
chief, so rudely offered to that delicate and helpless or-  
gan. Cathartics, cannot be too highly commended, in



these cases of the symptomatic Hydrocephalus, originating in a derangement of the digested organs. Here, they display a pre-eminence, which justly entitles them to a high rank in the catalogue of remedies for the complaint; and it is in this case that they have often happily dispelled a train of symptoms, which from their dangerous and menacing aspect, have excited the most alarming apprehensions for the fate of the patient.

Blisters. The great relief which blisters afford in most cases of local inflammation, is amply sufficient to recommend them to our notice in the disease under consideration. In the early stages of the complaint, after the vascular action has been reduced by bleeding, and the other depleting measures; a large blister applied to the scalp, has in many instances effected as much comfortable mitigation of the tormenting headache, which so continually harasses the patient. The utility of blisters in this disease, came to have been well known a considerable time past, for a very ingenious author who, fifty years ago, wrote on Hydrocephalus, observes, "that though Cauterides imparts a painful sensation on the skin, and temporary

And. Clarke on the diseases of Spiders.

passages, nevertheless the extraordinary relief they display, in some diseases, may be owing for aught we can tell, to a kind of villation, or some unknown operation on invisible fibrillae, unexplored canals, and on fluids not yet dignified with a name: Who can ascertain or limit the variety or extent of their power? However liable to objection, this view of the *modus operandi* of blisters may be, it will not be denied that they constitute an exceedingly valuable means, in subduing some of the more violent and desolating symptoms which are incident in the first stages of the complaint. Their mode of operation is to be explained upon the principle of reculsion. In consequence of the peculiar inflammation which they excite externally, the convulsed action, existing within the brain is invited to this new source of irritation, and in some degree appears to be supplanted by it.

Notwithstanding the weight of authority, in favour of the application of blisters to the head, in this disease, the utility is possibly denied by a very ingenious and respectable writer, who declares, that in a number of the cases of the complaint, which have come under



his claims, he has employed the blister to the scalp,  
and invariably without success. This fact, so contrary  
to the observation of most practitioners, Dr Clarke explains  
us in the following manner. He says, that when blis-  
ters are applied to the scalp in inflammation of the  
brain; a new inflammation is excited on a surface,  
supplied from the same general trunk (proceeding from  
the aorta) as the brain itself. If an increased flow  
of blood is produced by the blister, it can only be by  
a larger supply from the aorta, through the common  
trunk of the two cerebral arteries, which will of course  
enlarge supply the diseased inflammation within, and  
that excited by the blister outwardly."

As exceedingly ingenious and plausible does this expla-  
nation appear, that we could hardly refuse to admit  
its correctness, if a very extensive experience was not  
abundantly established the contrary principle. But the gre-  
at advantage, which in numerous cases, most unques-  
tionably, has resulted from blisters thus applied, and the  
testimony in vindication of the measure, is so respect-  
able that we are sufficiently warranted in urging

¶ *Quoniam.*

their employment in the case before us. In most instances  
as intended, it will be sufficient, to extract the blisters, and  
to cover them with some cooling substance; as the same  
is supported sentiment, with the view of keeping up a per-  
sistent discharge from the head. It must be confessed, at  
the same time, that in some cases, where Blisters have  
been applied to the scalp, the disease did terminate un-  
favourably. But this ought, by no means, to discourage  
us from their use; for the same fact equally applies  
to many of our most valuable remedies, and to aban-  
don a mode of treatment, because it is not universally  
successful, would be an innovation in medicine, no  
less prejudicial to the science, than fatal to humanity.

Cold Affections. Among the means for lessening the  
thickness of the fluids, cold is doubtless entitled to con-  
siderable weight. Alcohol, distilled or in water, or vinegar, &c.  
should be applied all over the head, and repeated as  
often as they become warm. Or, what answers very well,  
is a bladder of cold water, or a clay bath. During the  
application of cold, and even at all times, the head  
ought to be elevated; at least, as much as is agreeable

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to the patient, for in a case, attended with so much  
danger, it is prudent to avoid ourselves of every ad-  
vantage, however inconsiderable. In raising the head  
and sucking it out, the determination to the brain  
will be obstructed by the effect of gravity, as well as  
the operation of the cold. We are also supported, in ad-  
vising the use of this remedy, by the expressions of the  
patients themselves; for whenever they are in a situation  
to make known their feelings, they signify relief, and  
express the remedy to be repeated.

Pedicularium and Sinapium. As corroborating means in  
the treatment of the first stage, pedicularium and sin-  
apium are, lastly, to be mentioned. These remedies, which  
are so important in febrile diseases where there is ex-  
cessive determination, would seem to be no less serviceable  
in hydrocephalus. They operate very much upon the  
same principle as blisters; and by equalizing the  
excitement of the system, they abate the violence of  
the pain in the head, as well as other distressing sy-  
mptoms dependent upon the congestion of the cere-  
bral vessels.

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If unfortunately the disease has not been arrested by a  
sufficient application of the preceding remedies, an effusion  
of serum, the natural consequence of inflammation, takes  
place within the brain, to which a dangerous train of sy-  
mptoms soon succeeds, and soon to point out the common  
symptoms of the second stage. Such being the case, the  
intention of cure, is evidently, to excite the action of the  
absorbents, by which the water may be removed from the  
brain, and the mischievous effects of its continuance, there-  
by obviated.

With this view, there is no plan of treatment which pro-  
mises more, or is likely better to succeed than a mercuri-  
al course. It obtains its effects as speedily as possi-  
ble, the mercurial should be very liberally administered  
internally, and the most powerful ointment externally  
applied by means of fictions, with the greatest industry  
in large quantities. "It is as safe than this," says Dr. Chapman  
and contains with great discommodities, "in these desperate  
cases, is to fight with the remedy, to practice injustice  
to ourselves, and to cut off the only chance which  
the patient has of salvation." Whether mercury should

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in these cases, by stimulating the absorbents to increased action, or by substituting its own specific agency in place of the diseased one, does not now clearly appear. It is sufficient for my present purpose to know however, that its utility in that stage of the disease, is incontrovertibly confirmed, by the repeated experience of many practitioners. I am not ignorant, that the dangerous and even implacable effects, which occasionally follow the sacrifice use of the medicine has deterred some physicians from substituting it in sufficient quantities; but when we recollect, that the disease has now advanced to a stage, in which the utmost danger is to be apprehended; and from which, indeed, recoveries very rarely take place, and that there ought to be no hesitation, in the adoption, and vigorous application of such measures as experience teaches us are most likely to prevent a fatal termination.

Should mercury sometimes have no injurious effects, and I think it is accidental to be preferred to the mode to be resorted to, some other also may have been equally useful in the stage of the complaint. At the accounts of

• *Chrysom.*

the vessels on the meninges are to be considered in however, the physician has undoubtedly, <sup>in</sup> several <sup>of</sup> such cases, seen the use of some medicines, and whenever a suitable opportunity presents itself, in the course of his treatment, it seems proper to employ it. The medicine ought never to be resorted to, while the pulse continues to be much excited, or until the system is brought to a condition favorable to its use. Calculated under these circumstances, the article appears to be entitled to some portion of our confidence, and sometimes displays effects, eminently beneficial and salutary. The proper mode of administering it, is to commence with a temperate dose, which is to be gradually increased, until its operation on some part of the body is evident.

Having, by these antispasmodic means, subdued the disease, and the effusion also being removed from the brain, it will be advisable, in the next place, to have recourse to a train of treatment; during which course a very particular attention should be directed to the bowels, and if any tenacious or obstinate exists, it ought to be most carefully corrected. By these measures, together

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with the prudent use of moderate exercise, the recuperative energies of the system, will be considerably assisted, and the convalescence of the patient, more speedily and effectually established.

It now becomes my duty, most affectionately, to offer my thanks, to the Medical Professors of this University, for the instruction I have received from their excellent lectures; as well as to express the great satisfaction, with which, their improved eloquence has stamped upon my mind, the most important medical truths. But in making these open expressions of gratitude, gentlemen, let it not be forgotten, that I thoroughly feel my indebtedness, to do justice to your merits; and while sensible of the great obligations, which are due to your affection and kindness, I wish it to be remembered, that a source of the most sensible gratification, is opened to my mind, when I contemplate, that the elements of my medical education, have been imbibed from the illustrious Architects of the Western Hemisphere.

The Ends.





